FO converter set, consisting of type A devices and type B devices, for full duplex transmission from 10/100Base-T(X) to individual simplex fiberglass with WDM (wavelength division multiplex) technology. SC simplex fiber optic connection (1550/1310 nm).

Product Description

Optical transmission with FO technology provides superior immunity to interference at maximum transmission ranges without restricting the transmission bandwidth.

Your advantages

- Link fault pass through (LFPT) and far end fault (FEF) functions for easy connection monitoring
- Device set for operation on one fiber
- Shipbuilding approval in accordance with DNV GL
- Full duplex communication with only one fiber
- Transmission ranges up to 38 km
- Auto negotiation
- Auto MDI/MDI-X switch-over
- Data rates 10/100 Mbps
Media converter - FL MC EF WDM-SET
SC - 2902660


<table>
<thead>
<tr>
<th>Commercial Data</th>
<th></th>
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<tbody>
<tr>
<td>Order Key</td>
<td>2902660</td>
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<tr>
<td>Packing unit</td>
<td>1 pc</td>
</tr>
<tr>
<td>Minimum order quantity</td>
<td>1 pc</td>
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<tr>
<td>Sales Key</td>
<td>DNC</td>
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<tr>
<td>Catalog Page</td>
<td>Page 350 (C-6-2019)</td>
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<tr>
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<td>4046356670616</td>
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<td>Weight per Piece (including packing)</td>
<td>434.0 GRM</td>
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<td>Weight per Piece (excluding packing)</td>
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<td>Customs tariff number</td>
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Technical Data

Environmental and real-life conditions

<table>
<thead>
<tr>
<th>Altitude</th>
<th>≤ 5000 m (For restrictions, see the manufacturer’s declaration for altitude operation)</th>
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<tbody>
<tr>
<td></td>
<td>≤ 2000 m (With UL approval)</td>
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</table>

Notes

Utilization restriction

CCCex note

Use in potentially explosive areas is not permitted in China.

Environmental Product Compliance

<table>
<thead>
<tr>
<th>REACh SVHC</th>
<th>Lead 7439-92-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>China RoHS</td>
<td>Environmentally Friendly Use Period = 50 years</td>
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For details about hazardous substances go to tab “Downloads”, Category “Manufacturer’s declaration”

Interfaces

<table>
<thead>
<tr>
<th>Signal</th>
<th>Ethernet</th>
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Data: optical FO

<table>
<thead>
<tr>
<th>Transmission medium</th>
<th>Multi-mode fiberglass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single-mode fiberglass</td>
</tr>
</tbody>
</table>

| Transmission length incl. 3 dB system reserve | 38 km (With F-E 9/125 0.36 dB/km) |
|                                               | 34 km (With F-E 9/125 0.4 dB/km) |
|                                               | 28 km (With F-E 9/125 0.5 dB/km) |

| Transmission length incl. 3 dB system reserve | 21 km (with F-G 62.5/125 0.7 dB/km F 1000) |
|                                               | 5.5 km (with F-G 62.5/125 2.6 dB/km F 600) |
|                                               | 21 km (with F-G 50/125 0.7 dB/km F 1200) |
|                                               | 9 km (with F-G 50/125 1.6 dB/km F 800) |

| Connection method | SC simplex |

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>1550 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1310 nm</td>
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</tbody>
</table>

Data

| Transmission medium | Copper |

Approval data

Corrosive gas test

| Identification | ISA-S71.04-1985 G3 Harsh Group A |

EAC

| Identification | EAC |

Shipbuilding
### Media converter - FL MC EF WDM-SET
**SC - 2902660**


<table>
<thead>
<tr>
<th>Identification</th>
<th>DNV GL</th>
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<table>
<thead>
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<th><strong>DNV GL data</strong></th>
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<tbody>
<tr>
<td>Temperature</td>
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<td>Vibration</td>
<td>A</td>
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<tr>
<td>Humidity</td>
<td>A</td>
</tr>
<tr>
<td>EMC</td>
<td>B</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Required protection according to the Rules shall be provided upon installation on board</td>
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### IoT capabilities

**Platform**  

### Product properties

<table>
<thead>
<tr>
<th>Set consists of</th>
<th>2902658 FL MC EF WDM-A SC</th>
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<tbody>
<tr>
<td></td>
<td>2902659 FL MC EF WDM-B SC</td>
</tr>
</tbody>
</table>
Media converter - FL MC EF WDM-SET
SC - 2902660


Connect SC simplex plug

Schematic diagram

Function elements
Media converter - FL MC EF WDM-SET
SC - 2902660

https://www.phoenixcontact.com/in/products/2902660

### Approvals

<table>
<thead>
<tr>
<th>Approval</th>
<th>Icon</th>
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<tbody>
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<td>DNV GL</td>
<td>🛡️</td>
</tr>
<tr>
<td>EAC</td>
<td>🇹🇷</td>
</tr>
</tbody>
</table>
Accessories

Data cable preassembled

Data cable preassembled - FL MM PATCH 1,0 SC-SCRJ - 2901812

Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: SC duplex/SC-RJ, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

Data cable preassembled

Data cable preassembled - FL MM PATCH 2,0 SC-SCRJ - 2901813

Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: SC duplex/SC-RJ, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

Data cable preassembled

Data cable preassembled - FL MM PATCH 5,0 SC-SCRJ - 2901814
Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: SC duplex/SC-RJ, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 5 m

Data cable preassembled
Data cable preassembled - FOC-GDM-RUGGED-1016/... - 1402193

rugged GOF installation cable for inner areas with highly tear-proof aramid strain-relief elements. Individual elements consist of highly flexible FRNC material. The cable is halogen-free, ozone and UV resistant and has a rugged polyurethane (PUR) outer sheath.

Data cable preassembled
Data cable preassembled - FOC-LC:PA-SC:PA-OM2:D01/1 - 1115607

Data cable preassembled
Data cable preassembled - FOC-LC:PA-SC:PA-OM2:D01/2 - 1115605

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 1 m

Data cable preassembled
Data cable preassembled - FOC-LC:PA-SC:PA-OM4:D01/1 - 1115601

Data cable preassembled
Data cable preassembled - FOC-LC:PA-SC:PA-OM4:D01/2 - 1115600

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 2 m
Data cable preassembled

Data cable preassembled - FOC-LC:PA-SC:PA-OS2:D01/1 - 1115618

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 1 m

---

Data cable preassembled

Data cable preassembled - FOC-LC:PA-SC:PA-OS2:D01/2 - 1115617

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 2 m

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Data cable preassembled

Data cable preassembled - FOC-SC:PA-SC:PA-OM2:D01/1 - 1115536

Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 1 m
Data cable preassembled

Data cable preassembled - FOC-SC:PA-SC:PA-OM2:D01/2 - 1115535

- Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 2 m

Data cable preassembled

Data cable preassembled - FOC-SC:PA-SC:PA-OM4:D01/1 - 1115424

- Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 1 m

Data cable preassembled

Data cable preassembled - FOC-SC:PA-SC:PA-OM4:D01/2 - 1115423

- Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 2 m
Data cable preassembled
Data cable preassembled - FOC-SC:PA-SC:PA-OS2:D01/1 - 1115550

Single-mode OS2 duplex jumper, SC-SC, UPC polishing, length 1 m

Data cable preassembled
Data cable preassembled - FOC-SC:PA-SC:PA-OS2:D01/2 - 1115548

Single-mode OS2 duplex jumper, SC-SC, UPC polishing, length 2 m

Data cable preassembled
Data cable preassembled - FOC-ST:PA-SC:PA-OM2:D01/1 - 1115574

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 1 m
Data cable preassembled
Data cable preassembled - FOC-ST:PA-SC:PA-OM2:D01/2 - 1115573

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 2 m

Data cable preassembled
Data cable preassembled - FOC-ST:PA-SC:PA-OS2:D01/1 - 1115582

Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length 1 m

Data cable preassembled
Data cable preassembled - FOC-ST:PA-SC:PA-OS2:D01/2 - 1115581

Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length 2 m
Data cable by the meter
Data cable by the meter - FL CAT5 FLEX - 2744830

By the meter, Installation cable, Ethernet CAT5 (100 Mbps), shielded, PUR halogen-free, water blue RAL 5021, 4-wire (2x2xAWG26/7; SF/UTP), color single wire: white/orange-orange, white/green-green, cable length: Free entry (1.0 ... 1000.0 m)

Data cable by the meter
Data cable by the meter - FL CAT5 HEAVY - 2744814

CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm², solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter

Data cable by the meter
Data cable by the meter - PSM-LWL-GDM-RUGGED- 50/125 - 2799322

Fiber glass cable, duplex 50 µm/125 µm, by the meter, without male connector, for installation in stationary systems and machines
Data cable by the meter
Data cable by the meter - PSM-LWL-GDO- 50/125 - 2799432

Fiberglass cable, duplex 50/125 µm, by the meter, without connector, for outdoor installation

Patch cable
Patch cable - FL CAT5 PATCH 0,5 - 2832263

Patch cable, CAT5, assembled, 0.5 m

Patch cable
Patch cable - FL CAT5 PATCH 1,0 - 2832276

Patch cable, CAT5, assembled, 1 m
Patch cable

Patch cable - FL CAT5 PATCH 2.0 - 2832289

Patch cable, CAT5, assembled, 2 m

---

Patch cable

Patch cable - FL CAT5 PATCH 3.0 - 2832292

Patch cable, CAT5, assembled, 3 m

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Power supply

Power supply - MINI-SYS-PS-100-240AC/24DC/1.5 - 2866983

Primary-switched MINI POWER supply for DIN rail mounting, input: 1-phase, output: 24 V DC/1.5 A
Data plug

Data plug - FL CRIMPTOOL - 2744869

Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site

Data plug

Data plug - VS-08-RJ45-5-Q/IP20 - 1656725


Data plug

Data plug - VS-08-RJ45-5-Q/IP20 BK - 1658008

Media converter

Media converter - FL MC EF WDM-A SC - 2902658

FO converter (replacement device A), for full duplex transmission from 10/100Base-T(X) to individual simplex fiberglass with WDM (wavelength division multiplex) technology, SC simplex fiber optic connection (1310/1550 nm). Device set (type A and type B) required for operation.

Media converter

Media converter - FL MC EF WDM-B SC - 2902659

FO converter (replacement device B), for full duplex transmission from 10/100Base-T(X) to individual simplex fiberglass with WDM (wavelength division multiplex) technology, SC simplex fiber optic connection (1550/1310 nm). Device set (type A and type B) required for operation.

DIN rail connector

DIN rail connector - ME 17,5 TBUS 1,5/ 5-ST-3,81 GN - 2709561

DIN rail connector

DIN rail connector - ME 22,5 TBUS 1,5/ 5-ST-3,81 GN - 2707437

DIN rail connector, color: green, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, Number of positions per row: 5, pitch: 3.81 mm, mounting: DIN rail mounting, Locking: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts